

WATER LINE FLUSHING PROGRAM



WHAT IS FLUSHING ?

The Department of Water Management conducts a comprehensive water line flushing program throughout the distribution system. Flushing is a process that rapidly removes water from the City of Franklin's water piping system. Flushing uses water force to scour out materials that accumulate in the City's pipes. Water pipes are flushed by opening fire hydrants and blow-offs. Blow-offs that are usually installed at dead ends.



FLUSHING PROGRAM SCHEDULE

ZONE No. 1 MARCH 1st through APRIL 30th

ZONE No. 2 MAY 1st through JUNE 30th

ZONE No. 3 September 1st through October 30th

ZONE No. 4 November 1st through December 30th

FLUSHING PROCEDURES FOR BROWN WATER

During flushing, water service may be interrupted. If the water appears discolored, do not be alarmed. It is recommended that you do not use the water for a minimum of 2 hours, which will give it time to clear. After waiting, run your cold water faucet for about 5 minutes to verify that the water has cleared. During drought conditions, the flushing program may cease operation until conditions improve.



WHY ARE WE FLUSHING ?

Because water mains are sized to allow adequate and safe flows for fire protection, water typically is moving through the underground pipelines at less than 2 miles per hour. This slow movement causes sediment, like rust and mineral particles, to build up over time and accumulate along the pipes bottom. This build up can restrict water flow in the pipes and contribute to corrosion and water color problems.

Periodically flushing water pipes removes the sediment and mineral build up. Flushing our City's Infrastructure and assures consistent water quality.



IMPLEMENTATION PLAN

Service crews with the Department of Water Management, shall implement the flushing program per the (Rules of Tennessee Department of Environment and Conservation) Chapter 1200-5-1

- The flushing program shall help ensure that dead end and low usage mains are flushed periodically.
- That drinking water standards are meet.
- That sediment and air removal is maintained.
- That free chlorine residual specified under Rule 1200-5-1.17(4) is maintained

- That records including date,time,location,persons responsible and length of flushing are maintained and available.
- The free chlorine residual will be measured and the total gallons flushed will be recorded after each flush.



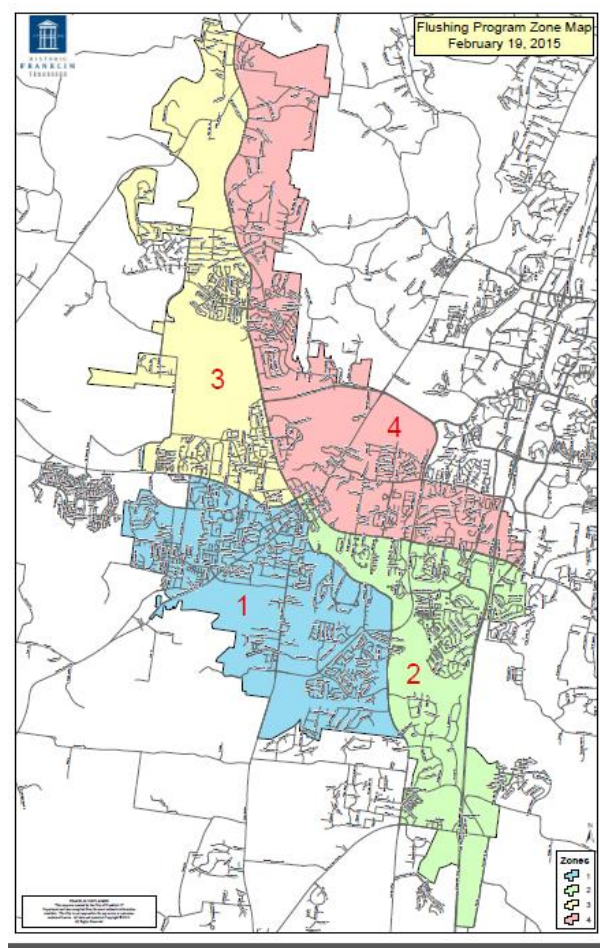
REQUIRED OPENINGS TO FLUSH PIPELINES

Table II
Required Openings To Flush Pipelines
(40-psi Residual Pressure)

Pipe Size (inches)	Flow required To Produce 2.5 fps velocity (gpm)	Orifice Size	Hydrant Outlet Nozzles *	
6	220	1-3/8	1	2-1/2
8	390	1-7/8	1	2-1/2
10	610	2-5/16	1	2-1/2
12	880	2-13/16	1	2-1/2
14	1200	3-1/4	2	2-1/2
16	1,565	3-5/8	2	2-1/2
18	1,980	4-3/16	2	2-1/2
20	2,440	-----	1	4-1/2
24	3,470	-----	2	4-1/2

- With a 40-psi pressure in the main with the hydrant flowing to the atmosphere, a 2-1/2 inch hydrant outlet will discharge approximately 1,000 gpm and a 4-1/2 inch hydrant outlet will discharge approximately 2,500 gpm.
- City of Franklin Specifications & Details – Chapter 4, Section 3.3.7

CITY OF FRANKLIN FLUSH ZONES MAP



CONTACT INFORMATION ON THE FLUSHING PROGRAM

- All records associated with the Department of Water Managements flushing program shall be maintained at 124 Lumber Drive Franklin Tennessee and available at request.
- Questions regarding the City's Flushing Program may be directed to the Department of Water Management Services Office at (615) 794-4554.